

Linzer biol. Beitr.	36/2	1199-1204	30.11.2004
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New and little known Anomaloninae (Hymenoptera, Ichneumonidae) from Turkey

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A b s t r a c t : This study is based upon the ichneumonids material collected in eastern Turkey in last decade. Fifteen species in six genera are recorded of these, seven species are new for the Turkish fauna.

K e y w o r d s : Hymenoptera, Ichneumonidae, Anomaloninae, fauna, Turkey.

Introduction

Although the members of the family Ichneumonidae comprise one of the most important parasitoid insects as pest management is concerned, and is the largest family in the Hymenoptera. The researches on ichneumonid fauna of Turkey are very restricted. However, the recent studies conducted by KOLAROV & BEYARSLAN (1993); ÖZDEMİR & KILINÇER (1994); KOLAROV et al. (1994); ÖZDEMİR (1996); KOLAROV (1997); KOLAROV et al. (1997a, 1997b); KOLAROV & ÖZBEK (1998); YURTCAN et al. (1999); PEKEL (1999); KOLAROV et al. (1999); PEKEL & ÖZBEK (2000); ÖZBEK et al. (2000); PEKEL et al. (2000); KOLAROV et al. (2000); ÖZDEMİR (2001); KOLAROV et al. (2002); ÇORUH (PEKEL) et al. (2002) are appreciable due to important contributions to the enrichment of the ichneumonid fauna of Turkey.

The present study deals with the subfamily Anomaloninae that is a moderately small cosmopolitan group with 38 genera worldwide. The anomalonines are koinobiont endoparasitoids, mostly of Lepidoptera and some Coleoptera; oviposition is into larvae, with emergence always from the pupa (GAULD & BOLTON 1988; WAHL 1993).

Twenty two species in 13 genera of Anomaloninae have been recorded from mainly western Turkey so far (KOLAROV et al. 1994; KOLAROV 1995). In this contribution 15 species in six genera were recorded. Of these, six species are new for Turkey. All species are new for eastern Anatolian Region.

Results

***Agrypon flexorium* (THUNBERG 1822)**

D i s t r i b u t i o n i n T u r k e y : Uzunköprü, Lalapaşa-Vaysal (Edirne), Belgrad Wald (İstanbul) (KOLAROV et al. 1994).

Distribution in the world: Palaearctic Region (YU & HORSTMANN 1997).

Material examined: Bayburt: Kop Mt., 2200 m, 16.VII.2000, 1♂ Erzurum: Aşkale, 1950 m, 14.VII.1999, 1♀; Hınıs, 1750 m, 19.VII.2001, 1♂; Oltu, Çamlıbel, 1750 m, 21.VI.1997, 1♂.

***Agrypon gracilipes* (CURTIS 1839)**

Distribution in Turkey: Ankara (ÖZDEMİR & KILINÇER 1990)

Distribution in the world: Palaearctic Region (YU & HORSTMANN 1997).

Material examined: Bayburt: Çataldere, 1800 m, 16.VI.2000, 1♂; Maden, 1650 m, 16.VI.2000 1♂.

***Agrypon varitarsum* (WESMAEL 1849)**

Distribution in the Turkey: Dereköy (Kırklareli) (KOLAROV et al. 1994)

Distribution in the world: Holarctic Region (YU & HORSTMANN 1997).

Material examined: Erzurum: Aşkale, 1950 m, 14.VII.1999, 1♂.

***Anomalon cruentatum* (GEOFFROY 1785)**

Distribution in the Turkey: Mogan gölü, Yılanlı Mt., (Erciyes), İstanbul, Tekirdağ, Ankara, Yozgat (KOLAROV et al. 1994, KOLAROV 1995).

Distribution in the world: Middle and South Europe, Turkey, Kazakhstan, Middle Asia and South Western Siberia (KOLAROV 1995).

Material examined: Antalya: Arapsuyu, 5 m, 04.VII.2002, 1♀, Karain Mağarası, 200 m, 22.V.2000, 1♂. Bayburt: Kop Mt., 2400 m, 11.VII.1991, 1♀, 25.VII.2001, 1♀, 13.VIII.1997, 6♀♀, 1♂. Bingöl: Solhan, 2120 m, 25.VI.2000, 1♀. Diyarbakir: University field, 700 m, 01.V.2002, 1♀. Erzincan: Bahçe Kùltürleri Arařtırma Enst., 1250 m, 19.VII.1997, 2♀♀. Erzurum: University field, 1850 m, 23.VII.1990, 1♂, 6.VIII.1996, 1♂, 5.VIII.1998, 2♀♀; Palandöken Mt., 2400 m, 23.VII.1996, 1♀; Güngörmez, 2500 m, 28.VII.1998, 1♂; Konaklı, 2000-2400 m, 22.VII.2000, 5♀♀; Kargapazarı Mt., Radar road 2000 m, 25.VII.2001, 1♀; Aşkale, 1950 m, 14.VII.1999, 1♂; Çat, Çiriřli Pass, 2000-2100 m, 26.VII.2001, 1♀; Horasan, Aras valley, 1500 m, 04.VI.2000, 2♀♀, 3♂♂; İlica, Atlıkonak, 2000-2400 m, 29.VI.2001, 1♀; İspir, Madenköprübaşı, 1400 m, 10.VII.1994, 1♀, 7.VII.1996, 10♀♀, ♂; Kandilli, 1700 m, 27.V. 2001, 1♂; Narman, Kireçli, 2000 m, 2.VII.2000, 1♀; Oltu, 1350 m, 7.VI.1989, 1♀, 27.VI.2000, 1♀, Başkale, 1100 m, 9.VII.2000, 1♀, Between Oltu-Tutmaç, 1700-2100 m, 31.VII.2001, 1♀, Çamlıbel, 1750 m, 2.VII.1997, 2♀♀, 14.VII.1996, ♀, ♂, Sarısaz, 1450 m, 24.VII. 2000, 1♂, 21.IX.2000, 1♀; Olur, Süngübayır, 1850 m, 30.VII.1999, 1♂; Pasinler, Pelitli, 2000 m, 14.VII.1998, 1♀; Rizekent, 2200 m, 30.VII.1998, 4♀♀, 1♂, Sorkumlu, 1850 m, 30.VII.1998, 3♀♀; Şenkaya, 1700 m, 2.VII.1989, 1♀, Akşar, 1200 m, 9.VII.2000, 1♀, Turnalı, 1750 m, 22.VIII.1999, 1♀; Tortum, Çataldere, 1950 m, 13.VII.2001, 1♀; Uzundere, Şelale, 1000 m, 9.VI.1996, 1♀, 27.VI.2000, 1♀, Yayla, 2100 m, 21.VII.2000, 1♂. Hatay: Kırkhan, Abalaklı, 300 m, 1.IX.1996, 1♂. İğdir: Melekli, 850 m, 24.VIII.1997, 1♂; Yaylalı, 900 m, 24.VIII.1997, 1♀. Kahramanmaraş: 32 km W, 500 m, 37° 38' 14'' N, 36° 38' 09'' E, 14.V.2002, 1♀. Kars: Digor, Karköy, 1700 m, 22.VIII.1997, 1♀; Kağızman, Todan, 1600 m, 25.VII.1997, 1♀; Sarıkamıř, Akkurt, 1650 m, 25.VII.1997, 1♂, Karakurt, 1500 m, 02.V.2000, 2♀♀, 2♂♂, 40 07'54'' N, 42 20'94'' E, 15.VIII.2002, 3♀♀.

***Barylypa amabilis* (TOSQUINET 1900)**

Distribution in the Turkey: **New species for Turkey.**

Distribution in the world: Palaearctic Region (YU & HORSTMANN 1997).

Material examined: Erzurum: 1850 m, 22.VII.1980 2♂♂. Samsun: Gelemen, 130 m, 30.VII.1998, 1♂.

***Barylypa delictor* (THUNBERG 1822)**

Distribution in the Turkey: Edime (SEDIVY 1959, KOLAROV 1995).

Distribution in the world: Caucasus, Kazakhstan, Kirgizia and Tadjikistan (KOLAROV 1995).

Material examined: Erzurum: Oltu, 1300 m, 11.VII. 1974, 1♀. Mus: Devlet Üretim Çiftliği, 1600 m, 1.VI.1972, 1♀.

***Barylypa insidiator* (FOERSTER 1878)**

Distribution in the Turkey: **New species for Turkey.**

Distribution in The world: Palaearctic Region (YU & HORSTMANN 1997).

Material examined: Rize: 10 m, 1.IX.1992, 1♀.

***Barylypa torquata* ATANASOV 1975**

Distribution in the Turkey: **New species for Turkey.**

Distribution in the world: Palaearctic Region.

Material examined: Erzurum: Aşkale, Kandilli, 1700 m, 27.V.2001, 1♂; Ilıca, Adıkonak, 2000 m, 16.VII.1997, 1♂.

***Barylypa uniguttata* GRAVENHORST 1829**

Distribution in the Turkey: Lapseki, Anzak (Çanakkale) (KOLAROV et al. 1994).

Distribution in the world: Palaearctic Region (YU & HORSTMANN 1997).

Material examined: Erzurum: Hınıs 40 km to SE, 1800 m, 14.VII.2002, 1♂. Kars: Aras Valley, Akkurt, 40°07'38'' N, 42°44'10'' E, 18.V.2002, 1♀. Malatya: SE Arapgir 19 km, 1250 m, 38°55'13'' N, 38°33'22'' E, 16.V.2002, 1♀.

***Erigorgus cerinops* GRAVENHORST 1829**

Distribution in the Turkey: Kosut Mt. (Edime) (KOLAROV et al. 1994, KOLAROV 1995).

Distribution in the world: Europe, North Africa, Kazakhstan, Kirgizia, Mongolia, East Siberia and Yakutia (KOLAROV 1995).

Material examined: Erzurum: Palandöken Mt., 2400 m, 1.VII.1996, 2 ♀♀, 23.VII.1997, ♀; Güngörmez, 2500 m, 28.VII.1998, 1 ♀; Konaklı, 2000-2400 m, 22.VII.2000, 1 ♂; İspir, Madenköprübaşı, 1400 m, 7.VII.1996, 1 ♂; Pazaryolu, Karataş, 2000 m, 5.VII.2000, 1 ♂.

***Erigorgus cubitator* (AUBERT 1960)**

Distribution in the Turkey: New species for Turkey.

Distribution in the world: South Europe, North Africa (KOLAROV 1995).

Material examined: Erzurum: İlica, Atlıkonak, 2000 m, 11.VI.2000, 1 ♀.

***Erigorgus melanobatus* (GRAVENHORST 1829)**

Distribution in the Turkey: New species for Turkey.

Distribution in the world: Palaearctic Region.

Material examined: Erzurum: University field, 1850 m, 22.VII.1999, 1 ♂; Narman, Kireçli, 1600-1900 m, 2.VII.2000, 1 ♂.

***Parania geniculata* (HOLMGREN 1857)**

Distribution in the Turkey: Tekirdağ (KOLAROV et al. 1994).

Distribution in the world: Holarctic Region.

Material examined: Erzurum: University field, 1850 m, 2.VIII.1998, 1 ♂, 10.VIII.1998, 1 ♂; İlica, Sorkumlu, 1800 m, 10.VIII.1999, 1 ♂.

***Therion circumflexum* (LINNAEUS 1758)**

Distribution in the Turkey: Belgrad Wald, 'Işık Mt., (ÖZDEMİR & KILINÇER 1990), Konya (KOLAROV 1995)

Distribution in the world: Holarctic Region (YU & HORSTMANN 1997).

Material examined: Erzurum: Dutçu, Komyolu, 1900 m, 18.VII.1999, 1 ♀. Kars: Sankamış, Karakurt, 02.V.2000, 1 ♀.

***Therion tarsatum* (SHESTAKOV 1923)**

Distribution in the Turkey: New species for Turkey.

Distribution in the world: Kazakhstan and Middle Asia (KOLAROV 1995).

Material examined: Erzurum: Palandöken Mt., 2400 m, 9.VII.1996, 1 ♂; Tortum, Aksu, 1750 m, 21.VIII.1998, 1 ♂.

Zusammenfassung

Vorliegende Studie über die Ichneumonidenfauna der östlichen Türkei basiert auf Aufsammlungen der letzten 10 Jahre. Nachgewiesen wurden 15 Arten, sieben davon sind neu für die Türkei.

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